

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-4. Canceled.

5. (Currently Amended) A wireless communication device comprising:
~~at least one~~ a system processor ~~and at least one communication processor;~~

a communication processor;

a communication module, in communication with the system processor and the communication processor to facilitate communication between ~~each~~ the system processor and the communication processor; and

a shared memory associated with the communication module;

wherein the ~~each~~ system processor and communication processor each include ~~having~~ an associated operating system, the operating system being configured to receive variables from a single thread in a single threaded operating environment, port the received variables via a porting layer for use in a multiple threaded environment ~~performing code generated from a software model, the software model developed using a single threaded modeling tool, a porting layer~~

~~ports code generated by the single threaded modeling tool to a multiple threaded environment, the porting layer wherein the porting in the received~~ variables into the multiple threaded operating environment is performed by reference ~~and not as variables so such~~ that each of an independent thread can access variables by reference without stopping on another independent thread's variable.

6. (Currently Amended) The wireless communication device of claim 5, further comprising a single threaded modeling tool configured to generate code from a software model, wherein the single threaded modeling tool produces variables as global variables and not using the global variables in operation of a plurality of threads in the multiple threaded operating environment.

7. (original) The wireless communication device of claim 5 wherein the porting layer comprises a root process table having process description block entries, each process in the process description block entry having static variables.

8. (Currently Amended) The wireless communication device of claim 6 5, further comprising wherein a an SDL modeling language used in the software development ~~is SDL~~ and wherein the single threaded ~~software~~ modeling tool is ~~Telelogic Tau C micro~~ TELELOGIC TAU C MICRO with light integration.

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9. (original) The wireless communication device of claim 5 wherein the wireless communication device is a wireless transmit/receive unit.